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CE 616-851: Construction Cost Estimating

Giri Venkiteela

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CE 616 - Construction Cost Estimating Fall 2020

Text: Estimating In Building Construction, Eighth Edition, Frank R. Dagostino and Steven J. Peterson
Published By: Prentice Hall

Instructor: Professor Giri Venkiteela: email address: venkitee@njit.edu

Prerequisite: CE 610

Course Description: This course objective is to learn construction cost estimation by understanding basic principles, advanced computerized tools and current research.

Course Outcomes: Upon successful completion of this course, students should specifically be able to do the following:

1. Understand the estimating and quantity take-off process and how they are associated with construction cost control.
2. Understanding the construction bidding process
3. Knowledge on current tools and technologies used in construction cost estimation

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Grading:

Midterm	25%
Final	25%
Project Report/ Presentation	30% (25%/5%)
Homework	10%
Research article review	10%

Schedule:

Week-1 (Sep 4)	Introduction to Estimating Contract Documents	
Week-2 (Sep 11)	Contracts, Bonds, Insurance Project Manual	RA#1
Week-3 (Sep 18)	Estimate Quantity Takeoff	HW#1
Week-4 (Sep 25)	Excavation	HW#2
Week-5 (Oct 2)	Masonry Metal Wood	RA#2
Week-6 (Oct 9)	Concrete Concrete Estimating	Assignment of Project Bid
Week-7 (Oct 16)	Midterm	Midterm Exam
Week-8 (Oct 23)	Thermal and Moisture Protection Doors and Windows Finishes	HW#3
Week-9 (Oct 30)	Mechanical Insulation Estimating HVAC/Plumbing Industrial Equipment	RA#3
Week-10 (Nov 6)	Scheduling	RA#4
Week-11 (Nov 13)	Anatomy of a Construction Project Construction Cycle Types of Construction Projects Types of Construction Users	HW#4
Week-12 (Nov 20)	Value Engineering	HW#5
Week-13 (Nov 27)	Thanksgiving week	
Week-14 (Dec 4)	Business Development in the Construction Industry Marketing Plan Project ID Prequalification Developing Relationships	Project presentation slides due
Week-15 (Dec 11)	Projects Due	Project report due
Week-16 (Dec 18)	Final	Final Exam